## **Recovery Plan Action Status**

Plan Name: Recovery Plan for Upland Species of the San Joaquin Valley, California

Plan Status: Final Plan Date: 30-Sep-98 Lead Agency: USFWS

Lead Office: Sacramento Fish And Wildlife Office 414-6600)

Species	Action Priority #	Action #	Action Description	Action Status	Est. Initiation Date	Est. Completion Date	Responsible Parties	Work Type	Labor Type	Action Comments
Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmatebracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides nitratoides), San Joaquin woolythreads (Monolopia (=Lembertia) congdonii)		1.1	Develop regional cooperative program that coordinates land use planning and biodiversity conservation	Ongoing Not Current	FY 1995 - FY 1999		U.S. Bureau of Land Management, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Other: Information and Education	Internal Technical Assistance	

Buena Vista Lake ornate Shrew  1.2.1 Develop and implement an Ongoing Not Current  FY 1995 - FY 1999  Unknown, U.S. Fish and Wildlife  Other: Information and Education  Assistance	
(Sorex ornatus relictus), Riparlian woodrat (=San Joaquin Valler) (Nectoms fuscipes fugaris), Palmate (=Carrylamhus apalmatus), Bakersfield cactus (Opurila trelease), Riparlan brush rabbit (Sylvilagus bachmari riparius), California (=Carrylamhus apalmatus), Pisarian brush rabbit (Sylvilagus bachmari riparius), California (=California (=Calif	rmate Shrew Sorex ornatus elictus), Riparian roodrat (=San oaquin Valley) Neotoma fuscipes paria), Palmate- rracted bird's beak Cordylanthus elimatus), bakersfield cactus Opuntia treleasei), tiparian brush elibit (Sylvilagus eachmani riparius), california ewelflower Caulanthus alifornicus), fresno kangaroo et (Dipodomys itratoides exilis), san Joaquin kit fox Vulpes macrotis nutica), Kern nallow (Eremalche ernensis), Giant angaroo rat Dipodomys itratoides), San oaquin wooly- nreads (Monolopia elembertia)

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Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmatebracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides nitratoides), San Joaquin wooly-threads (Monolopia (=Lembertia)	2	1.2.2	Develop economic incentives for conserving listed species and natural communities on private lands	Unknown	FY 1995 - FY 1999	Date	U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Other: Regulations	Internal Technical Assistance	In text refers to legislation.
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Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmatebracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides nitratoides), San Joaquin wooly-threads (Monolopia (=Lembertia) congdonii)	2	1.2.3	Encourage and assist local entities in developing and implementing largearea HCPs	Ongoing Current	FY 1995 - FY 1999		City governments, County governments, U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game, Private landowners	Other: Regulations	Contract	

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Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Riparian brush rabbit (Sylvilagus bachmani riparius)	1	2.2.3	Protect and restore riparian habitat for riparian brush rabbits and woodrats on Stanislaus River, particularly at Caswell State Park	Ongoing Not Current	FY 1995 - FY 1999		California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: Easement	Contract	
Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Riparian brush rabbit (Sylvilagus bachmani riparius)	1	2.2.4	Protect, restore, and enhance habitats for riparian brush rabbit and riparian woodrat on San Joaquin River NWR	Partially Complete	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, U.S. Army Corps of Engineers, Private landowners	Management: General	Contract	Funding for RBR mounds for flood refuge in 2006. Ongoing habitat restoration with NWR and River Partners

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Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Riparian brush rabbit (Sylvilagus bachmani riparius), San Joaquin kit fox (Vulpes macrotis mutica)	1	2.2.5	Protect, restore, and manage riparian and upland habitat in the San Joaquin River in Merced Co.	Ongoing Current	FY 1995 - FY 1999		California Department of Parks and Recreation, City governments, County governments, U.S. Bureau of Reclamation, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Acquisition: Easement	Contract	
Buena Vista Lake ornate Shrew (Sorex ornatus relictus), Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Palmatebracted bird's beak (Cordylanthus palmatus), Bakersfield cactus (Opuntia treleasei), Riparian brush rabbit (Sylvilagus bachmani riparius), California jewelflower (Caulanthus californicus), Fresno kangaroo rat (Dipodomys nitratoides exilis), Blunt-nosed leopard lizard (Gambelia silus), San Joaquin kit fox (Vulpes macrotis mutica), Kern mallow (Eremalche kernensis), Giant kangaroo rat (Dipodomys ingens), Tipton kangaroo rat (Dipodomys nitratoides nitratoides), San Joaquin woolythreads (Monolopia (=Lembertia) congdonii)		3.1	Establish a program and protocol for general and directed surveys for featured species	Not Started			U.S. Bureau of Land Management, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Population Surveys	Contract	Relates to program establishment and protocol development only

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Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Riparian brush rabbit (Sylvilagus bachmani riparius)	1	3.2.26	Conduct surveys for riparian species in San Joaquin and Stanislaus counties	Ongoing Current	FY 1995 - FY 1999		U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Research: Population Surveys	Contract	
Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia), Riparian brush rabbit (Sylvilagus bachmani riparius)	1	4.43	Conduct multiple research tasks for riparian species in San Joaquin and Stanislaus Counties	Not Started			California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game	Research: Habitat Status	Contract	Monitoring ongoing; census indefinitely
Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia)	1	4.55	Conduct population genetics research on the riparain woodrat	Ongoing Current	FY 2007		California Department of Parks and Recreation, U.S. Fish and Wildlife Service, California Department of Fish and Game, U.S. Army Corps of Engineers	Research: Genetics	Contract	University of Idaho

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Riparian woodrat (=San Joaquin Valley) (Neotoma fuscipes riparia)	1	7.8.2	Reintroduce riparian woodrat	Not Started			U.S. Fish and Wildlife Service, California Department of Fish and Game	Management: Reintroduction	Contract	